

ABSTRACT OF THE DISCLOSURE

The combustion vibration estimating apparatus comprises an inputting unit for inputting limiting values of plant data, weather data and internal pressure variation, an internal pressure variation characteristic grasping unit for making internal pressure variation of a combustor into a mathematical model from the input plant data and weather data, a combustion vibration region estimating unit for applying a limiting value of the internal pressure variation to the mathematical model obtained by the internal pressure variation characteristic grasping unit to obtain combustion vibration-prone to be generated region, and an outputting unit for outputting a combustion vibration region estimation result by the combustion vibration region estimating unit.